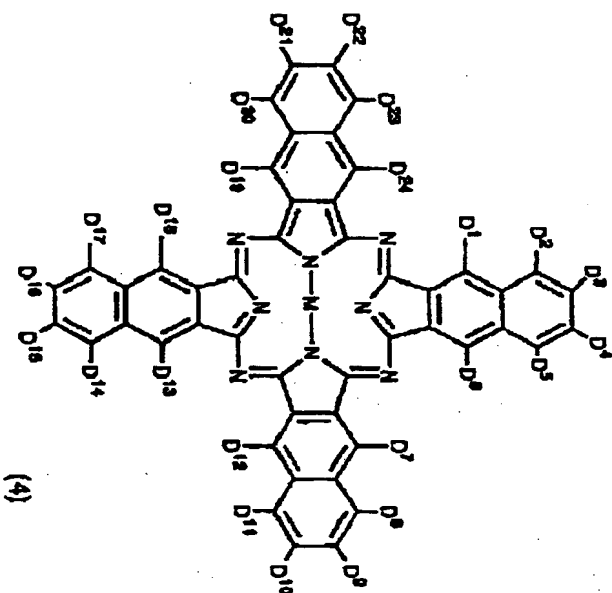


95-317693/41	A97 G02 (A23)	MITK 93.12.10
MITSUI TOATSU CHEM INC		
*JP 07216275-A		
93.12.10 93JP-310767 (95.08.15) C09D 11/00, C09B 47/04, C09D 11/02, 11/10// C07C 323/00		
Ink compsn., of good storability and sensitivity - contg. UV absorber, near infrared ray absorber, and polyester resin		
C95-141141		
Addnl. Data: 94.11.01 94JP-268910		

<p>The ink compsn. (P) contains at least one near infrared ray absorber (A) selected from dithiol cpds. (A1) of formula (I) and formula (II) and phthalocyanine cpds. (A2) of formula (III) and formula (IV),</p> <div><div><math display="block">\left[ \begin{array}{c} \text{A}^1 \\ \text{A}^2 \\ \text{A}^3 \\ \text{A}^4 \end{array} \text{C}_6\text{H}_2 \text{---} \text{M} \text{---} \text{C}_6\text{H}_2 \begin{array}{c} \text{A}^5 \\ \text{A}^6 \\ \text{A}^7 \\ \text{A}^8 \end{array} \right]^{n+} \text{M}^n \text{A}^1 \text{A}^2 \text{A}^3 \text{A}^4 \text{A}^5 \text{A}^6 \text{A}^7 \text{A}^8 \text{A}^9 \text{A}^{10} \text{A}^{11} \text{A}^{12} \text{A}^{13} \text{A}^{14} \text{A}^{15} \text{A}^{16} \text{A}^{17} \text{A}^{18} \text{A}^{19} \text{A}^{20} \text{A}^{21} \text{A}^{22} \text{A}^{23} \text{A}^{24} \text{A}^{25} \text{A}^{26} \text{A}^{27} \text{A}^{28} \text{A}^{29} \text{A}^{30} \text{A}^{31} \text{A}^{32} \text{A}^{33} \text{A}^{34} \text{A}^{35} \text{A}^{36} \text{A}^{37} \text{A}^{38} \text{A}^{39} \text{A}^{40} \text{A}^{41} \text{A}^{42} \text{A}^{43} \text{A}^{44} \text{A}^{45} \text{A}^{46} \text{A}^{47} \text{A}^{48} 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UV absorber (B), which absorbs UV light of 250-400 nm, and polyester resin (C) and opt. solvent (D) selected from the gps. of alcohol, ketone, ester, aliphatic hydrocarbon, aromatic hydrocarbon, ether, and halogen contg. type solvents.

A<sup>1</sup>-A<sup>8</sup> = each independently a hydrogen or halogen atom or nitro, cyano, thiocyanate, cyanate, acyl, carbamoyl, alkylaminocarbonyl, alkoxy, carbonyl, aryloxy, opt. subst. alkyl, opt. subst. aryl, opt. subst. alkoxy, opt. subst. aryloxy, opt. subst. alkylthio, opt. subst. arylthio, opt. subst. alkylamino, or opt. subst. arylamino gp. Adjacent two gps. may be connected through a linking gp.  
 R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup> = each independently an opt. subst. alkyl or opt. subst. aryl gp.  
 B<sup>1</sup>, B<sup>2</sup>, B<sup>3</sup>, and B<sup>4</sup> = each independently a hydrogen atom or cyano, acyl, carbamoyl, alkylaminocarbonyl, alkoxy, carbonyl, aryloxy, opt. subst. alkyl, or opt. subst. aryl gp. Adjacent two gps. may be connected through a linking gp.  
 M = a divalent metal atom, trivalent or tetravalent subst. metal atom, or oxy metal atom.  
 C<sup>15</sup>-C<sup>16</sup> = each independently a hydrogen or halogen atom or opt. subst. alkyl, opt. subst. alkoxy, opt. subst. aryl, opt. subst. aryloxy, opt. subst. alkylthio, or opt. subst. arylthio gp.  
 Each pair of C<sup>1</sup> and C<sup>2</sup>, C<sup>3</sup> and C<sup>4</sup>, C<sup>5</sup> and C<sup>6</sup>, C<sup>7</sup> and C<sup>8</sup>, C<sup>9</sup> and C<sup>10</sup>, C<sup>11</sup> and C<sup>12</sup>, C<sup>13</sup> and C<sup>14</sup>, and C<sup>1</sup> and C<sup>16</sup> can not be simultaneously hydrogen atoms;  
 M = a divalent metal atom, trivalent or tetravalent subst. metal atom, or oxy metal atom.

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<p>D<sup>1</sup>-D<sup>24</sup> = each independently a hydrogen or halogen atom or opt. substd. alkyl, opt. substd. alkoxy, opt. substd. aryl, opt. substd. aryloxy, opt. substd. alkylthio, or opt. substd. arylthio gp.</p> <p>Each pair of D<sup>1</sup> and D<sup>2</sup>, D<sup>3</sup> and D<sup>4</sup>, D<sup>5</sup> and D<sup>6</sup>, D<sup>7</sup> and D<sup>8</sup>, D<sup>9</sup> and D<sup>10</sup>, D<sup>11</sup> and D<sup>12</sup>, D<sup>13</sup> and D<sup>14</sup>, D<sup>15</sup> and D<sup>16</sup>, D<sup>17</sup> and D<sup>18</sup>, D<sup>19</sup> and D<sup>20</sup>, D<sup>21</sup> and D<sup>22</sup>, D<sup>23</sup> and D<sup>24</sup> can not be simultaneously hydrogen atom, M = a divalent metal atom, trivalent or tetravalent substd. metal atom, or oxymetal.</p> <p><u>USE</u> (P) is suitable for printing prepaid cards, which are read by means of OCR.</p> <p><u>ADVANTAGE</u> (P) is excellent in storage stability and sensitivity of near infrared rays (700-1,800 nm). The printings obtd. by (P) are excellent in light resistance.</p> <p><u>PREFERRED EMBODIMENT</u> (1) (B) has a max. absorption peak wavelength of 250-400 nm.</p>	<p>(2) (C) is a satd. aliphatic polyester. (10pp180DwgNo.0/0)</p> <p>JP 07216275-A/2</p>

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